## IN THE CLAIMS

Please substitute claims 1-16 with the following:

1. (Previously Presented) An information processing device for sending data to a terminal device connected to a network domain made up of an aggregate of plural subnetworks, said device comprising:

a terminal device that belongs to the network domain and has an IP address comprising a network prefix and an interface ID, said network prefix being assigned to said network domain and said interface ID being uniquely assigned within said network domain; and

a router connected to said network domain having a memory to store said interface ID paired with information of the next hop address for each terminal device in said network domain;

said router being configured to determine, upon receiving data, whether or not an interface ID specified in the data is stored in the memory; and upon determining that said interface ID is stored in the memory, to transfer said data in accordance with the next hop address.

- 2-3. (Cancelled).
- 4. (Previously Presented) An information processing device according to claim 1, wherein said router transfers said data to a second network domain made up of an aggregate of a plurality of subnetworks when said router determines that said interface ID is not stored in said memory.
  - 5. (Cancelled).

6. (Currently Amended) An information processing method for an information processing device for sending data to terminal devices connected to a network domain constituted as an aggregate of a plurality of subnetworks, said method comprising:

providing a terminal device that belongs to the network domain and has an IP address comprising a network prefix and an interface ID, said network prefix being assigned to said network domain and said interface ID being uniquely assigned within said network domain domain;

storing, in a router, said interface ID specifying a said terminal device paired with a next hop address;

receiving, at said router, a data packet specifying an interface ID;

determining whether or not said interface ID specified by the data packet is stored in said router; and

if it is determined that said interface ID specified by the data packet is stored in said router, transferring said data packet according to said next hop address paired with said interface ID.

7. (Currently Amended) A recording medium having recorded thereon a computerreadable program for controlling an information processing device for sending data to terminal devices connected to a network domain constituted as an aggregate of a plurality of subnetworks, said program comprising:

providing a terminal device that belongs to the network domain and has an IP address comprising a network prefix and an interface ID, said network prefix being assigned to said

network domain and said interface ID being uniquely assigned within said network domain

<u>domain;</u>

storing, in a router, said interface ID specifying a said terminal device paired with a next

hop address;

receiving, at said router, a data packet specifying an interface ID;

determining whether or not said interface ID specified by the data packet is stored in said

router; and

if it is determined that said interface ID specified by the data packet is stored in said

router, transferring said data packet according to said next hop address paired with said interface

ID.

8. (Currently Amended) A program in a computer for controlling an information

processing device for sending data to terminal devices connected to a network domain made up

of an aggregate of a plurality of subnetworks, said method comprising:

providing a terminal device that belongs to the network domain and has an IP address

comprising a network prefix and an interface ID, said network prefix being assigned to said

network domain and said interface ID being uniquely assigned within said network domain

domain;

storing, in a router, said interface ID specifying a said terminal device paired with a next

hop address;

receiving, at said router, a data packet specifying an interface ID;

determining whether or not said interface ID specified by the data packet is stored in said

router; and

if it is determined that said interface ID specified by the data packet is stored in said router, transferring said data packet according to said next hop address paired with said interface ID.

- 9. (Previously Presented) A network system using Internet Protocol Version 6 comprising:
  - a backbone network;
  - a plurality of subnetworks;
- a first router connected to said backbone network to manage said plurality of subnetworks as a network domain;
  - a second router to manage a subnetwork in said network domain; and
  - at least one terminal device connected to a subnetwork in said network domain;
- wherein each terminal device has an IP address comprising a network prefix and an interface ID, said network prefix being assigned to said network domain and said interface ID being uniquely assigned within said network domain.
- 10. (Previously Presented) The network system of claim 9 wherein said first router has a first routing table to store said interface ID paired with a next hop address for each terminal device in said network domain.
- 11. (Previously Presented) The network system of claim 10 wherein said second router has a second routing table to store said interface ID paired with a next hop address for each terminal device in said subnetwork managed by said second router.
- 12. (Previously Presented) The network system of claim 11 wherein, upon a data packet being received by said first or second router, said first or second router determines

whether or not an interface ID specified in said data packet is stored in the respective first or

second routing table.

13. (Previously Presented) The network system of claim 12 wherein, if said first or

second router determines that the interface ID specified in said data packet is stored in the

respective routing table, said first or second router transfers said data packet in accordance with

said next hop address corresponding to said interface ID stored in the routing table.

14. (Previously Presented) The network system of claim 12 wherein, if said first or

second router determines that the interface ID specified in said data packet is not stored in the

respective routing table, the first or second router transfers said data packet in accordance with

information stored in a default entry in the respective first or second routing table.

15. (Previously Presented) The network system of claim 12 wherein said first and

second routing tables are updated when a terminal device moves to another subnetwork in said

network domain.

16. (Previously Presented) The network system of claim 9 wherein said interface ID

is contained within the lower 64 bits of the IPv6 address.